Beam Cerenkov

Current Status

-2 heads are in MC7

- We have 4 mirrors + - We have 2 of 4 phototubes

- Some Parts are missing - Only one has motor control

New Calculations

- See MIPP website for details

- Beam requirment of < 1 mr angluar dispersion

- Angle thresholds set at 5mr and 7mr

- pipe length of 8.8 m (10") and 24.5 m (10",12

- 2 of 3/4 gasses selected.

Running Modes

17-K identification with 24.5m radiator and 5mr Threshold. threshold mode

Freon 114 5-20 GeV Start of differental mode Differential mode NZ 25-65 GeV He 70- 120 GeV

K-P identification with 8.8m radiator and Turthres.

timing 5 GeV Timing + Threshold. Freon 114 10 GeV threshold mode

Freon 114 15-20 GeV Threshold mode 25-40 GeV Nz

Differential mode 45 - 120 GeV NZ

Differential mode Ne

100 - 120 GeV

To Do

- Test phototubes and get 2 more
- Clean/Inspect/Recoat mirrors
- Design/Build stands
- Build Gras system and Controller
- make =both heads motor controlled
- Clean
- Look at B near TPC end
- Pick highn gas Cy Fio 1 load @ 0.5 bar

for both heads is 37 lbs (3.2 m2) # 35/lba = \$ 1309/load